

**Exhibit B**

**Cell Line Availability from Depositories**

Please see attached 40 pages  
including  
21 pages from ATCC website  
8 pages from ECACC website; and  
11 pages from DSMZ website



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1. Fill out the form completely.
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3. Describe how ATCC products will be used at your facility.

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**New accounts are subject to approval.** Please include a brief description of your organization **on company letterhead** with your completed application. Your account application must be approved before any order will be processed. Missing information will delay approval or may result in denying the application. Print or type information to be legible.

Please allow 2 weeks after receipt of completed application for account approval.

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Controller/Finance Officer Name	Telephone	Fax	E-mail

<b>Billing Address (Invoices will be sent to this address.)</b> Please check with your accounts payable department to verify the correct billing address for your organization.			
Billing Department	Contact Person (Complete First & Last Name)	Employer Identification Number (EIN)	
Street Address / P.O. Box			
City	State/Province	Zip/Postal Code	Country
Telephone (including Country Code)	Fax (including Country Code)	E-mail	

<b>Check Type of Organization</b> Check most applicable			
<input type="checkbox"/> University/Education	<input type="checkbox"/> Biotechnology/Life Science	<input type="checkbox"/> Pharmaceutical/Drug Discovery	
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<input type="checkbox"/> Food Processing/Agriculture <input type="checkbox"/> Other (explain) _____			
<input type="checkbox"/> Nonprofit (attach Federal 501(c)(3) Form)		<input type="checkbox"/> Profit	<input type="checkbox"/> Distributor

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Please give a general description of how ATCC products will be used.

**Laboratory Facility Description****Biosafety Containment Level of Facility – Circle one: 1 2 3\***

\*Level 3 will require the curriculum vitae or resume of the primary investigator or end user.

Description must include how the lab facilities meet the requested biosafety level guidelines of the CDC/NIH. See *Biosafety in Microbiological and Biomedical Laboratories*, 4th ed. HHS Publication No. (CDC) 93-8395. U.S. Department of Health and Human Services, Centers for Disease Control. Washington, DC: U.S. Government Printing Office; 1999. The entire text is available online at [www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm).

Description of lab facilities located at shipping address. Use additional sheet if necessary.

**Required information:**

Biosafety Officer: \_\_\_\_\_  
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**Shipping Address (complete street address)**

\*Include any additional shipping addresses on a separate sheet of your letterhead paper

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Street Address			
City	State/Province	Zip/Postal Code	Country
Telephone	Fax	E-mail	

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Orders are subject to the ATCC Material Transfer Agreement. See our Web site for more information at [www.atcc.org](http://www.atcc.org)  
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ATCC accepts:

- 1) Visa, MasterCard, or American Express. The account number, expiration date, name as it appears on card and signature are required.
- 2) U.S. Currency by check drawn on any U.S. bank or UNESCO coupons or international money order made payable to:  
 American Type Culture Collection  
 P.O. Box 5779 Collections Center Dr.  
 Chicago, IL 60693
- 3) Money wire transfer to our account #003933990352, ABA#052001633 at Bank of America, N.A., Baltimore, MD.

We authorize the above listed to provide a credit reference to ATCC. We have read the ATCC Material Transfer Agreement and agree to abide by it. We also acknowledge that in the event our account becomes delinquent, ATCC may report to credit agencies and/or forward our account to a collections service.

**Authorized By:** (please print/type) \_\_\_\_\_ **Title:** \_\_\_\_\_

**Signature** \_\_\_\_\_

**Date:** \_\_\_\_\_



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- [Announcements](#)
- [Malaria Resource Center](#)
- [National Stem Cell Resource](#)
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- [Site Map](#)
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The distribution of ATCC materials in the United States and internationally is subject to regulations from the following Federal departments and agencies—Department of Agriculture, Department of Commerce, Department of Energy, Department of Health and Human Services, Department of the Interior, Department of Justice, Department of Labor, Department of State, Department of Transportation, Department of the Treasury, International Air Transport Association, and Environmental Protection Agency.

ATCC ships materials direct to all countries except those restricted by the U.S. government or those who have an official ATCC distributor.

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Material Transfer  
Agreement  
Distribution Policy  
Fax Order Form  
Online Status  
E-mail Status  
Forms  
Permits  
Discounts

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Animal  
Plant

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Molecular Genomics  
Cell Culture  
Microbial Products

**ATCC Special Collections**  
Johns Hopkins University  
Wistar Institute  
Yeast Genetic Research  
Resource Center

**ATCC Services**

Patent Depository  
Culture Safe Deposit  
Mycoplasma Testing  
Genomic DNA  
Preparation

**ATCC Technical Help****About ATCC**

Mission  
Announcements  
Media Resource Center  
National Stem Cell  
Resource  
Career Information  
Site Map  
Contact Us

## Material Transfer Agreement

Last Updated September 6, 2002

**IMPORTANT! PLEASE READ CAREFULLY BEFORE SUBMITTING ORDER. THIS IS A CONTRACT.**

This MTA is between you ("Purchaser" or "you") and American Type Culture Collection, a not-for-profit organization ("ATCC" or "we" or "us"). You must have an approved, current ATCC account to place an order.

**Scope of Use**

**YOU MAY MAKE AND USE THE MATERIAL ("MATERIAL") PROVIDED TO YOU BY ATCC AND ALL REPLICATES AND DERIVATIVES FOR RESEARCH PURPOSES IN YOUR LABORATORY ONLY. THE MATERIAL IS NOT INTENDED FOR USE IN HUMANS. PURCHASER AGREES THAT MATERIAL DESIGNATED AS BIOSAFETY LEVEL 2 OR 3 CONSTITUTES KNOWN PATHOGENS AND THAT OTHER MATERIAL NOT SO DESIGNATED AND REPLICATES OR DERIVATIVES MAY BE PATHOGENIC UNDER CERTAIN CONDITIONS. PURCHASER ASSUMES ALL RISK AND RESPONSIBILITY IN CONNECTION WITH THE RECEIPT, HANDLING, STORAGE, DISPOSAL, TRANSFER AND USE OF THE MATERIAL INCLUDING WITHOUT LIMITATION TAKING ALL APPROPRIATE SAFETY AND HANDLING PRECAUTIONS TO MINIMIZE HEALTH OR ENVIRONMENTAL RISK. PURCHASER AGREES THAT ANY ACTIVITY UNDERTAKEN WITH THE MATERIAL AND REPLICATES OR DERIVATIVES WILL BE CONDUCTED IN COMPLIANCE WITH ALL APPLICABLE GUIDELINES, LAWS AND REGULATIONS.**

The Purchaser shall not distribute, sell, lend or otherwise transfer the Material or Replicates for any reason. Any commercial use of the Material, Replicates, and Derivatives is prohibited without ATCC's prior written authorization. Your use of the Materials may require a license from a third party or be subject to third party restrictions ("Third Party Terms"), which you may learn about in the catalog description for the particular Material and which are either set forth below or available at [www.atcc.org](http://www.atcc.org). If there is a conflict between this MTA and Third Party Terms, the latter shall govern.

"Replicate" means any biological or chemical material that represents a substantially unmodified copy of the Material, such as material produced by growth of cells or microorganisms or amplification of Material. "Derivative" means material created from the Material that is substantially modified to have new properties, such as recombinant DNA clones made using a vector purchased from ATCC.

**Warranty; Warranty Disclaimer**

ATCC warrants that the Material shall be viable upon shipment from ATCC for a period of thirty (30) days ("Warranty Period"). The exclusive remedy for breach of this warranty is, at ATCC's option, (a) refund of the fee paid to ATCC for such Material (exclusive of shipping and handling charges), or (b) replacement of the Material. To obtain the exclusive remedy, Purchaser must report the lack of viability to ATCC's Technical Service Department within the Warranty Period. Any expiration date specified on the Material shipment documentation states the expected remaining useful life, but does not constitute a warranty or extend any applicable warranty period. **EXCEPT AS EXPRESSLY PROVIDED ABOVE, THE MATERIAL AND ANY TECHNICAL INFORMATION AND ASSISTANCE PROVIDED BY ATCC ARE PROVIDED AS-IS, WITHOUT WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TYPICALITY, SAFETY, ACCURACY AND NON-INFRINGEMENT.**

**Compliance With Laws**  
**PURCHASER IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE**

**FOREIGN AND DOMESTIC, FEDERAL, STATE AND LOCAL STATUTES, ORDINANCES AND REGULATIONS.** Without limiting the generality of the foregoing, any shipment of the Material to countries outside the United States must comply with all applicable U.S. laws, including the U.S. export control laws and related regulations.

#### **Indemnification**

Purchaser hereby agrees to indemnify, defend and hold harmless ATCC and its contributors against all third party claims, losses, expenses and damages (including reasonable attorneys' fees) arising out of or relating to the use, receipt, handling, storage, transfer, disposal and other activities relating to the Material, Replicates or Derivatives. All non-monetary settlements will be subject to ATCC's consent.

#### **Limitation of Liability**

**IN NO EVENT WILL ATCC OR ITS CONTRIBUTORS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND IN CONNECTION WITH OR ARISING OUT OF THE MTA, MATERIALS, REPLICATES OR DERIVATIVES (WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, STATUTE OR OTHERWISE) EVEN IF ATCC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL ATCC'S CUMULATIVE LIABILITY EXCEED THE FEES PAID BY PURCHASER UNDER THIS MTA FOR THE TWELVE (12) MONTH PERIOD PRECEDING THE DATE OF THE EVENT GIVING RISE TO THE CLAIM.** Purchaser agrees that the limitations of liability set forth in this Agreement shall apply even if a limited remedy provided hereunder fails of its essential purpose.

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ATCC will package the Material for shipping in accordance with applicable laws and regulations. Purchaser is responsible for ensuring that all permits required for Purchaser to receive its order are obtained and that sufficient proof of such permits is provided to ATCC. ATCC will notify Purchaser when orders are submitted without the necessary permits, and Purchaser will have a two (2) month period after such notification to supply proof of the necessary permit(s) before an order will be cancelled. A processing fee will be charged if special processing or packaging is necessary. All Materials are shipped FOB point of shipment, freight prepaid via carrier of our choice and added to your invoice. If the Material is lost or damaged during shipment, ATCC will replace such Material at no additional charge, provided that you have reported lost or damaged shipments to the applicable carrier and notified ATCC's Customer Service Department promptly upon discovery thereof.

#### **Miscellaneous**

This Agreement shall be governed by the laws of the Commonwealth of Virginia, without reference to its choice of law rules. Purchaser may not assign or otherwise transfer this Agreement or any rights or obligations under this Agreement, whether by operation of law or otherwise. Any attempted assignment or transfer will be void and of no force or effect. This MTA and all documents incorporated herein by reference constitute the entire agreement between ATCC and Purchaser with respect to the Material and supersede all previous agreements or representations. ATCC may revise this MTA at any time. The revisions will be effective immediately upon posting the revised MTA on ATCC's Web site available at [www.atcc.org](http://www.atcc.org), or otherwise making available the revised MTA to Purchaser. The version of the MTA applicable to any Materials ordered by Purchaser shall be the version in effect at the time of order placement.

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The following additional provisions are Third Party Terms which apply to the purchase of  
I.M.A.G.E. cDNA Clones:  
**Agreement in Good Faith Concerning Use and Distribution of Arrayed cDNA Clones**  
(revised 09/00)

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You are being provided with I.M.A.G.E. Consortium [LLNL] cDNA clones ("CLONES") and/or associated products ("PRODUCTS") (referred to collectively as "IMAGE MATERIALS"), in order to advance the public interest and to advance the objectives of the institutions that developed the original libraries from which these clones were derived ("Originators"). The Originators are the beneficiaries of, and may independently enforce, this Agreement.

#### **Use of IMAGE Materials**

By accepting IMAGE MATERIALS you are agreeing in good faith to the following terms. If you are unable to agree to these terms, you must immediately return IMAGE MATERIALS along with all copies and replicas thereof.

(a) You will use the IMAGE MATERIALS in compliance with all applicable laws, governmental regulations and guidelines, including National Institutes of Health guidelines or their equivalent, and any regulations or guidelines pertaining to research with humans, or animals, or with recombinant DNA.

(b) You may use CLONES to produce PROGENY, and to create DERIVATIVE PRODUCTS. You may use IMAGE MATERIALS, PROGENY, and DERIVATIVE PRODUCTS for commercial or non-commercial purposes, except for the purpose of redistribution of CLONES or PROGENY. Accordingly, you may transfer CLONES or PROGENY to additional parties only if 1) this document in its entirety accompanies CLONES or PROGENY, and 2) you transfer CLONES or PROGENY at no cost to such additional parties. "PROGENY" means an unmodified descendant from CLONES or any comparable bacterial stock derived from CLONES (STOCK). "DERIVATIVE PRODUCTS" means any modification or product of CLONES or PRODUCTS that is not a PROGENY or a STOCK.

(c) You will include the unique and specific identifier of each arrayed clone (which was initially assigned by Lawrence Livermore National Laboratory, Livermore, California, and accompanies the IMAGE MATERIALS) in data pertaining to the IMAGE MATERIALS submitted to public databases and in resulting publications. This nomenclature consists of the term "I.M.A.G.E. Consortium CloneID" followed by a five to seven digit number. You will refer publicly (including but not limited to electronic and print versions of articles and databases) to these arrayed cDNA clones as the "I.M.A.G.E. Consortium [LLNL] cDNA Clones", and will reference the following publication: "The I.M.A.G.E. Consortium: An Integrated Molecular Analysis of Genomes and their Expression," Lennon, G.G., Auffray, C., Polymeropoulos, M., and Soares, M.B. [1996] Genomics 33, pgs. 151-152. In INTERNET/World Wide Web publications and databases, you agree to provide electronic referencing (e.g. 'anchors' and/or 'hotlinks') to the I.M.A.G.E. Consortium home page, currently located at <http://image.llnl.gov>.

(d) You agree that the IMAGE MATERIALS are experimental in nature and are being provided without warranty, express or implied, including any implied warranty of merchantability or fitness for a particular purpose or freedom from infringement of any patent or other proprietary right of a third party.

(e) You agree to hold harmless and indemnify the Regents of the University of California, Lawrence Livermore National Laboratory, the Department of Energy, the U.S. Government, the originators of the library from which clones were arrayed, the provider of the IMAGE MATERIALS and persons acting on their behalf, for any claim asserted by a third party related to your possession, use, storage or disposal of the IMAGE MATERIALS.

(f) You understand that the ownership of the unarrayed cDNA libraries from which clones were arrayed is retained by the Originators of those libraries. Any new patentable developments or inventions first made by any party using arrayed clones will remain the property of the inventing party. This Agreement does not constitute the Originators waiver of any patent rights.

(g) Any correspondence concerning the I.M.A.G.E. Agreement should be addressed to: The Regents of the University of California  
Industrial Partnerships and Commercialization Program, Attn: I.M.A.G.E. Consortium, P.O. Box 808, L-795, Livermore, CA 94550, Phone: (925) 422-6416, Fax: (925) 423-8988

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Any correspondence concerning the ATCC Material Transfer Agreement should be addressed to: ATCC, Attention: Licensing, P.O. Box 1549, Manassas, VA 20108, Phone: (703)365-2700 or contact us at [www.atcc.org](http://www.atcc.org).

[Back to top](#)

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Material Transfer  
Agreement  
Distribution Policy  
Fax Order Form  
Online Status  
E-mail Status  
Forms  
Permits  
Discounts

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Yeast  
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Plant Seeds  
Protozoa & Algae  
Viruses & Antisera  
Animal  
Plant

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Microbial Products

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Genomic DNA  
Preparation

#### ATCC Technical Help

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Mission  
Announcements  
Malaria Resource Center  
National Stem Cell  
Resource  
Career Information  
Site Map  
Contact Us

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## ATCC Requirements

Certain strains and a few cell lines require one or more permits before distribution of the material can be made. Note: Customers are notified when orders are received without the necessary permits and given two months to supply the permit before the order will be cancelled. Permits can be faxed (703-365-2750) or mailed, ATCC, Sales Department, P.O.Box 1549 Manassas, VA 20108.

### Potentially Highly Pathogenic Materials

To alert the user of potential risk, ATCC has designated certain materials as potentially highly pathogenic. ATCC requires a Customer Acceptance of Responsibility Form (11.1KB/.pdf) be completed and returned to ATCC before shipment of such materials can be made.

## USA Requirements

### PHS/CDC-Human etiologic agents and vectors

Certain materials require a permit issued by the Office of Public Health and Safety, CDC permit 0.728 for importation and distribution. You must use permit application form CDC 0.753. For information concerning regulations governing permit requirements and shipment of pathogens and vectors of human disease, please contact the Office of Health and Safety, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services, 1600 Clifton Road, NE, Mailstop F05, Atlanta, GA 30333, telephone 404-639-3883.

### USDA/APHIS- Animal pathogens and plant pests

**Veterinary Services (VS):** Certain materials require a permit issued by the National Center for Import Export (NCIE), Products Program, Unit 40, 4700 River Road, Riverdale, MD 20737-1231. Application forms, VS 16-3 (and 16-7). For further information concerning regulations regarding the importation or movement of certain animal pathogens and vectors, please contact the NCIE office at 301-734-8499.

**Plant Protection and Quarantine (PPQ):** Certain materials require a permit from the Plant Protection and Quarantine Office, Biological Assessment and Taxonomic Support, 4700 River Road, Unit 133, Riverdale, MD 20737-1231. They are designated by "USDA PPQ-526 permit required" or USDA PPQ-655 required. Note: Effective January 1, 1999, permit applications are to be sent directly to USDA and they will forward them to the appropriate state plant regulatory officials.

**Biotechnology and Scientific Services (BSS):** A few clones require USDA APHIS Form 2000 for genetically engineered microorganisms that are plant pests. For further information concerning regulations governing the introduction, importation, interstate movement or release into the environment of genetically engineered organisms or products, contact the office of BSS, Biotechnology Permit Unit, APHIS, 4700 River Road, Unit 147, Riverdale, MD 20737-1237, telephone 301-734-7612.

**U.S. Fish & Wildlife Service**

The sale of any endangered wildlife is conditional on the issuance of a valid permit by the U.S. Fish & Wildlife Service and will not be consummated until a permit is obtained from the U.S. Fish & Wildlife Service.

**State of Hawaii Import Regulations**

The importation of microorganisms (bacteria, fungi, viruses, algae, and protozoans) and infectious cell lines into the State of Hawaii requires an import permit from the Hawaii Department of Agriculture. It is the responsibility of the customer in Hawaii to obtain the permit and provide a copy to ATCC in advance of shipment. For further information refer to Hawaii Administrative Rules Title 4 Chapter 71, *Non-Domestic Animal and Microorganism Import Rules* and Hawaii Revised Statutes Chapter 150A. Additional questions and application requests should be referred to Ms. Amy Higa, Micro-Organisms Specialist; Plant Quarantine Branch; State of Hawaii, Department of Agriculture; 701 Iialo Street, Honolulu, HI 96813-5524; telephone: 808-586-0860; fax: 808-586-0864.

**Exportation of Materials from the U.S.**

Canadian customers should refer to the information provided in the following section entitled "Canadian Requirements".

International customers should request any necessary import permits from their appropriate government agency and provide the import permits to the ATCC with their order.

The U.S. government requires an export license, issued by the Department of Commerce, Bureau of Industry and Security, before shipment outside the U.S. for certain organisms. ATCC applies for an export license for these materials. Microorganisms on the Commerce Control List are distributed only within the United States.

**Canadian Requirements**

Canada requires that all human, animal, and plant pathogens be accompanied by an import permit issued by the appropriate agency. Zoonotic pathogens require import permits from all agencies affected.

**Human Pathogens:** Health Canada issues import permits for human pathogens. Contact Office of Biosafety (0700A1), Laboratory Centre for Disease Control, Health Protection Branch, Health Canada, Ottawa, Ontario K1A 012 (Tel: 613-957-1779, FAX: 613-941-0596) for application forms and details. Additional information about importing human pathogens into Canada can be found on the Health Canada website.

**Animal Pathogens:** Canadian Food Inspection Agency issues import permits for animal pathogens. Contact Animal Health Division, Canadian Food Inspection Agency, 59 Camelot Drive, Nepean, Ontario K1A 0Y9 (Tel: 613-225-2342, FAX: 613-228-6630). For application forms and details please consult the CFIA website: [www.cfia-acia.agr.ca](http://www.cfia-acia.agr.ca).

**Plant Pathogens:** Canadian Food Inspection Agency issues import permits for plant pathogens. Contact Centre for Plant Quarantine Pests, Canadian Food Inspection Agency, 3851 Fallowfield Road, Nepean, Ontario K2H 8P9 (Tel: 613-228-6698 ext. 5911, FAX: 613-228-6676). For application forms and details please consult the CFIA website: [www.cfia-acia.agr.ca](http://www.cfia-acia.agr.ca).

**Shipping Requirements:** All shipments of infectious substances in Canada require compliance with Canadian Transport of Dangerous Goods Regulations. For details please consult Transport Canada website or you may call 613-990-1151.

[Back to top](#)

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Country:	USA

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## Permits/Forms:

ATCC Number:	CRL-2020
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## Permits/Forms:

ATCC Number:	HTB-14
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## Permits/Forms:

ATCC Number:	HTB-15
Country:	USA

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## Permits/Forms:

ATCC Number:	HTB-16
Country:	USA

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 BACK

## Catalogues Introduction

The combined forces of ECACC, a world leader in the supply of Authenticated Cell Lines, and Sigma-Aldrich, the global leaders in the supply of Life Science and Biotechnology Research Products, has now made it possible to deliver an extensive and comprehensive range of accessible products and services. These are delivered promptly, to the customers' specifications and to the highest standard.

Gain the advantage from this working partnership where you can now order quality control and authenticated Cell Lines produced by ECACC from the extensive distribution network of Sigma-Aldrich. Use the different options on the left to contact ECACC directly or Sigma-Aldrich local distribution channels.



[BACK](#)

## General Collection

This collection comprises approximately 1000 different cell lines originating from over 45 different species and a variety of different tissues. It incorporates over 400 human cell lines with many different cancer cell lines including drug resistant cell lines.

The cells can be shipped either as frozen or growing cultures, and are supplied complete with a specific data sheet together with a technical advisory pamphlet. Batch specific Certificates of Analysis and Authentication Records can be provided on request. ECACC can also supply cell lines on a standing order basis.

All cell lines added to the collection undergo full quality control and authentication procedures. These include testing for mycoplasma by a combination of culture isolation, Hoechst DNA staining and PCR, together with culture for contaminant bacteria, yeast and fungi. Cell lines are also tested for relevant common virus contaminants using PCR techniques.

Isoenzyme analysis is used to verify the species of each cell line deposit while DNA fingerprinting identifies cell line variation and / or cross contamination. ECACC routinely carries out two methods of DNA fingerprinting. Multilocus, applicable to most common species and Multiplex PCR for human cell lines only. The latter has the benefit of producing a digital 'fingerprint' which can be compared to ECACC's extensive range of archived profiles. Available cell lines are listed in the following pages with basic ordering information and a price code. The price code reflects a tiered price structure which is based on ordering frequency, inventory policy and how difficult the cell line is to cultivate. This tiered structure will allow ECACC to maintain its diverse range of cell lines, further expand the collection and continue to provide high quality control and characterisation on all the banks it distributes.

[BACK](#)

**BACK****General Cell Collection**

<b>ECACC No.</b>	89081403
<b>Cell Line Name</b>	U373 MG
<b>Keywords</b>	Human glioblastoma astrocytoma
<b>Cell Line Description</b>	Derived from a malignant tumour by explant technique.
<b>Species</b>	Human
<b>Tissue</b>	brain
<b>Morphology</b>	Epithelial
<b>Passage Number</b>	177
<b>Sub Culture Routine</b>	Split sub-confluent cultures (70-80%) 1:3 to 1:6 i.e. seeding at 2-4x10,000 cells/cm <sup>2</sup> using 0.25% trypsin or trypsin/EDTA; 5% CO <sub>2</sub> ; 37°C.
<b>Culture Medium</b>	EMEM (EBSS) + 2mM Glutamine + 1% Non Essential Amino Acids (NEAA) + 1mM Sodium Pyruvate (NaP) + 10% Foetal Bovine Serum (FBS).
<b>Karyotype</b>	2n = 46, the stemline chromosome number is hypotri
<b>Depositor</b>	Dr J Clarke, AVRI, Pirbright
<b>Originator</b>	No
<b>Country</b>	UK
<b>References</b>	Acta Path Microbiol Scan 1968;74:465
<b>Additional Literature Report</b>	Cell characteristics: 1) expresses high levels of alpha B crystallin and small heat-shock protein HSP28 (11) 2) expresses substance P receptor (13) 3) expresses TNF-alpha (14) Applications: 1) Study of neurokinin-1 receptor (1,2,4) 2) Regulations of inositol-phosphate accumulation and Protein-kinase C activation: effect of histamine (5), carbachol (5), substance P and related tachykinins (8) 3) Study of drugs and antineoplastic agents: combined effects of growth factors (3) 4) Study of HIV infection: effect of cytolegavirus on HIV replication (6, 12); mechanism of HIV entry into neuronal cells (9, 16, 17, 18) 5) Regulation of gene transcription and protein expression: expression of glial and neuronal cytoskeletal proteins (10); study of the DNA-binding protein IE86 (7); cytokine expression within astrocytoma cell lines (14); regulation of EGF receptor expression by TNF alpha (15) 6) Study of cell growth regulation (19) 7) Study of cell invasiveness and tumorigenicity (20) Bibliography: (1) GLIA, 11 (3) 277-83 /1994 (2) NEUROSCIENCE LETTERS, 171 (1-2) 221-4 /1994 (3) ONCOLOGY RESEARCH, 5 (10-11) 423-32 /1993 (4) EUROPEAN JOURNAL OF PHARMACOLOGY, 254 (3) 221-7 /1994 (5) BRITISH JOURNAL OF PHARMACOLOGY, 111 (2) 598-608 /1994 (6) JOURNAL OF VIROLOGY, 68 (2) 959-73 /1994 (7) JOURNAL OF VIROLOGY, 67 (12) 7547-55 /1993 (8) JOURNAL OF NEUROCHEMISTRY, 59 (2) 406-14 /1992 (9) JOURNAL OF VIROLOGY, 67 (10) 5939-47 /1993 (10) AMERICAN JOURNAL OF PATHOLOGY, 142 (3) 883-92 /1993 (11) BIOCHIMICA ET BIOPHYSICA ACTA, 1175 (3) 257-62 /1993 (12) JOURNAL OF VIROLOGY, 65 (12) 6969-78 /1991 (13) BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 179 (3) 1232-40 /1991 (14) NOT SHINKEI. BRAIN AND NERVE, 43 (12) 1145-50 /1991 (15) NIPPON IKA DAIGAKU ZASSHI. JOURNAL OF THE NIPPON MEDICAL SCHOOL, 58 (5) 537-46 /1991 (16) SCIENCE, 253 (5017) 320-3 /1991 (17) JOURNAL OF LEUKOCYTE BIOLOGY, 49 (6) 605-9 /1991 (18) JOURNAL OF VIROLOGY, 63 (6) 2527-33 /1989 (19) JOURNAL OF IMMUNOLOGY, 141 (7) 2342-8 /1988 (20) ACTA NEUROPATHOLOGICA, 72 (3) 207-13 /1987 (21) Pharmaceutisch Weekblad / 129/47-48 (1196-1197) /1994
<b>Additional Bibliography</b>	Not Available
<b>Research Council Deposit</b>	No
<b>Release Conditions</b>	No
<b>DNA Available from Stock</b>	No

The ECACC collections represent deposits of cell cultures from world-wide sources. While every effort is made to ensure details distributed by ECACC are accurate, ECACC cannot be held responsible for any inaccuracies in the data supplied. References where quoted are mainly attributed to the establishment of the cell culture and not for any specific property of the cell line, therefore further references should be obtained regarding cell culture characteristics. Passage numbers where given act only as a guide and ECACC does not guarantee the passage number stated will be the passage number received by the customer.

**Delivery State**

Price Code - B

Frozen - £185.00  
 Growing - £235.00  
 DNA - Please call +44 (0)1980 612512 for Prices.

**Quantity Required**

1

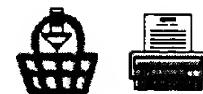
**Prices & Ordering**



Click the 'UPDATE' button to refresh the price for the quantity of packs required.  
Click the Basket button to add this product to your order.

**BACK**      **UPDATE**

**Net Total**  
**£185.00**



**BACK**

## How to Order

Use the Catalogue section of this website to select your required cell lines, then add them to the basket. When all cell lines have been selected, click the 'Go to Checkout' button and complete your details before finally clicking the 'Complete Order' button. Alternatively fill out the order form in full.

Please provide the following with your order:

1. VAT Exemption Certificate, if applicable (UK only).
2. VAT Number (EU Member States Only).

Read the Terms & Conditions of Sale .

Fax Order form to ECACC on +44 (0) 1980 611315, post to us at the contact address or send your request by email .

In order to avoid errors, telephone orders cannot be accepted.

### **Supply Formats**

#### **Cell Lines**

Frozen ampoule (min  $2 \times 10^6$  cells)  
(except in the case of some fastidious cell lines where fewer cells may be supplied)

**Growing Cultures** ( $25\text{cm}^2$  flask)  
(larger volumes can be quoted on request)

#### **DNA**

10 $\mu\text{g}$ , 50 $\mu\text{g}$  or 100 $\mu\text{g}$  aliquots supplied as frozen solutions at 0.2 $\mu\text{g}/\mu\text{l}$ .

Larger amounts available please enquire.

### **Prices**

See the PRICE LIST for current prices.

### **Research Council Deposits (RCD)**

RCD's are available free of charge to UK non-profit making organisations. Only one frozen ampoule is free of charge. Please note that a flask fee is charged if a growing culture is required. Standard carriage charges apply to RCD shipments

### **Delivery**

We aim to dispatch your cells within five working days of receipt of your fully completed order.

Once your fully completed order is received, frozen ampoules are despatched by courier service on dry-ice for next day delivery within the UK and within 72 hours in most other countries.

Growing cultures can take longer depending on the growth rate of each individual cell line.

### **Customer Preparation for Deliveries**

Upon receiving a shipment of ECACC frozen or growing cells it is important that the end user gives the shipment attention without delay. The technical advice accompanying the cell lines should be consulted before removing ampoules from the dry ice, or opening flasks of growing cells. Correct handling immediately upon receipt is critical to successfully establishing the cell line in the customers laboratory.

At the time a cell line is ordered from ECACC the customer should also consider the culture conditions for the new cell line and make sure the appropriate medium will be available when the cells arrive. Many cell lines are fastidious with regard to the culture medium and bovine serum quality. All the media and serum batches used at ECACC are thoroughly pre-screened for ability to support cell growth. It is possible that serum stocks in a customer's laboratory may not be optimum for a newly imported cell line.

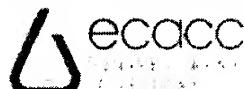
### Problems with Cell Cultures

ECACC can be contacted at any time during normal working hours for technical advice if the customer is uncertain of how best to propagate a new cell line. In the unlikely event a newly received cell line appears to suffer any kind of quality problem, such as poor viability or morphology or microbial contamination then ECACC should be informed without delay as many problems can be solved by talking to our technical support co-ordinator. If problems persist then a replacement will be shipped, pending our investigation of the problem. A fee for the replacement, plus delivery, will be charged unless the claim is substantiated.

The paperwork included with each shipment includes a Customer Service Form , to be completed and faxed to ECACC before a replacement can be organised. This form is also available in our Customer Service area on our web site and CD-Rom site.

E-mail [ecacc.technical@camr.org.uk](mailto:ecacc.technical@camr.org.uk)

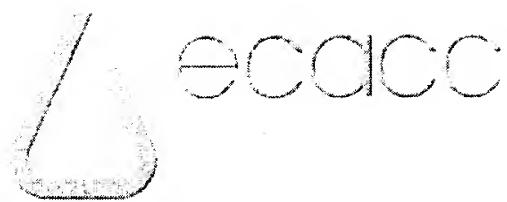
Tel: +44 (0) 1980 612684  
Fax: +44 (0) 1980 611315



### Related Information

-  **Order Form**
-  **Terms and Conditions of Supply**
-  **Price List**
-  **Customer Service Information Form**
-  **Technical Protocols**
-  **New Account Application**

## **ECACC Order Form**



Fax to +44 (0) 1980 611315

Item Name	ECACCCatalogue Number	Format	Quantity	Price
				£
				£
				£
				£
				£
				£
				£
				£
Delivery Charge				£
Total				£

<b>ECACC Account Number:</b>	
<b>VAT Number:</b>	
<b>Enclose exemption if eligible</b>	If you do not send your exemption certificate with your order you <b>WILL be charged VAT</b>
<b>Contact Name:</b>	
<b>Delivery Address:</b>	
<b>Telephone Number:</b>	
<b>Fax Number:</b>	
<b>E-mail Address:</b>	
<b>Purchase Order Number:</b>	
<b>Invoice Address: if different from above</b>	

All orders subject to ECACC's *Standard Terms and Conditions*

REMEMBER TO ENCLOSE THE FOLLOWING WITH YOUR ORDER?

1. VAT Exemption Certificate (if eligible) - UK only
2. Purchase Order number.
3. ECACC Account Number

We regret that we are unable to accept orders by telephone.

[BACK](#)

## Terms and Conditions of Supply

### TERMS & CONDITIONS OF SUPPLY

#### CELL LINES FROM ECACC'S GENERAL COLLECTION

**FOR THE PURPOSES OF THESE TERMS AND CONDITIONS ECACC SHALL MEAN THE 'MICROBIOLOGICAL RESEARCH AUTHORITY' ACTING THROUGH ITS OPERATING DIVISION 'THE EUROPEAN COLLECTION OF CELL CULTURES'.**

1. The Recipient hereby confirms that he/she is authorised to receive, for and on behalf of his/her employer, the cell lines itemised overleaf (the 'Cell Lines') and that these terms and conditions shall be binding upon said employer.
2. The Recipient shall use the Cell Lines, and any progeny, derivatives or products thereof (collectively 'Derivatives') for research purposes only. Notwithstanding the foregoing, in no event shall the Cell Lines or Derivatives be directly or indirectly applied to human subjects.
3. Unless otherwise agreed by ECACC, the Cell Lines and Derivatives shall not be incorporated into any service or product for sale, or utilised in the commercial provision or production of any service or product for sale.
4. The Recipient shall not distribute the Cell Lines or Derivatives within their organisation unless the individuals receiving the same are bound by these terms and conditions. The employing organisation of the Recipient shall not distribute the Cell Lines or Derivatives to any affiliated or associated organisations without ECACC's prior written consent.
5. As between recipient and ECACC all rights of ownership over the Cell Lines and Derivatives and all intellectual property rights subsisting therein, shall rest in ECACC or third party depositor. No licence is granted to the recipient, except that specified in Clause 2.
6. ECACC shall have no liability to the Recipient in the event that the Cell Lines and/or Derivatives infringe any intellectual property right of a third party and all warranties relating thereto whether expressed or implied, by statute or at common law, are hereby excluded.
7. The Recipient shall indemnify ECACC, and the original depositors of the Cell Lines with ECACC, against all loss, actions, costs, claims, demands, expenses and liabilities which ECACC or the said depositors may incur, either at common law or by statute, in respect of death or personal injury or in respect of any loss or destruction of or damage to property (except to the extent that the foregoing is as a result of any negligence on the part of ECACC) which occurs in connection with the Recipient's use of the Cell Lines and/or Derivatives (or that of the Recipient's employer, where the Recipient is an individual).
8. The Recipient shall abide by all applicable governmental and regulatory regulations and guidelines when handling and using the Cell Lines and Derivatives, and shall ensure that he/she, and any colleagues and/or employees handling or using the same, is technically qualified to do so and are not under any restrictions in relation thereto.
9. The Recipient shall indemnify ECACC against any and all loss, actions, costs, claims, demands, expenses and liabilities incurred by ECACC and/or the aforesaid depositors, by reason of any breach of these terms and conditions.
10. In any publication making reference to the Cell Lines and/or Derivatives, due acknowledgement shall be given of the source of the Cell Lines (quoting ECACC's catalogue reference number) and that accurate reference is made to the work of the original depositor.
11. The above terms and conditions shall constitute a contract between ECACC and the Recipient made in England and governed by English law.
12. In addition to the above terms and conditions, ECACC may impose further terms and conditions upon the supply of a particular Cell Line. Should ECACC seek to do so, ECACC shall provide the Recipient with details of these additional terms and conditions either upon request for, or receipt of, an order from the Recipient. Such additional terms and conditions shall, upon acceptance by the Recipient, and in addition to those terms and conditions set out above, be deemed to be incorporated into the relevant supply contract.

Effective from 9 February 1998



**Conditions of Ordering, Delivery and Payment****DSMZ**

These conditions of delivery apply to the supply of cultures from the DSMZ, unless other written agreements have been entered into between the DSMZ and the customer, click here for the appropriate printed order form.

The DSMZ requires that you place your first order using your official business paper either by post or fax, with your legally binding signature, giving full details of your postal address, contact person, telephone, and fax connection. Subsequent orders can be sent via e-mail, click here to load the order form.

1. The DSMZ supplies viable and authentic cultures. Problems such as damaged vials, contaminated or non viable cultures should be reported immediately to the DSMZ. Immediately means in the case of active cultures according to the growth rate of the culture 2-6 weeks after receipt of the culture, in the case of freeze-dried cultures not later than 3 months. Should claims found to be justified, a replacement culture will be supplied whenever possible. Should this not be possible, the purchase price will be refunded. No further claims can be accepted by the DSMZ.
2. The DSMZ is not responsible for damage or injury which may arise resulting from the purchase and use of the cultures supplied. In particular, the DSMZ is not responsible for damage or injury resulting from the improper handling of the cultures. Furthermore, the DSMZ is not responsible for damage or injury caused by products resulting directly or indirectly from the cultures, or for any subsequent costs arising.

**Irradiation of cultures:**

*The DSMZ is not responsible for loss of viability of cultures due to irradiation in the customer's country. We advise customers who are concerned to contact their customs office or postal authorities.*

Additional information for the departments

- Human and Animal Cell Cultures
- Plant Cell Lines
- Plant Viruses
- Patent Service
- Identification

**Payment to**

DSMZ - Deutsche Sammlung von  
Mikroorganismen und Zellkulturen GmbH  
Mascheroder Weg 1 b  
D - 38124 Braunschweig - Germany

Phone:  
+49(0)531 26 16 - 319 (Sales) (08:00 - 13:00h  
CET)  
+49(0)531 61 81 - 534 (Accounts)  
+49(0)531 26 16 - 0 (Secretariat)  
Fax:  
+49(0)531 26 16 - 444 (Sales)  
+49(0)531 26 16 - 418 (Central fax)

We confirm and accept the Conditions  
of Delivery  
and Payment of DSMZ.

Stamp and signature:

Place and date:

- Please indicate the invoice number!
- Payable immediately after receipt of goods without further discount

VAT-Nr. / No.: DE 114 815 269

**Accounts:**

• NORD/LB  
Account: 2 039 220  
Bank Code: 250 500 00  
SWIFT NOLADE 2 H

Postbank Hannover  
Account 0 106 079-304  
Bank Code: 250 100 30

BBk Braunschweig (formerly Landeszentralbank)  
Account 27 007 326  
Bank Code 270 000 00

The place of jurisdiction and performance is Braunschweig.

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**Order Form/Agreement****DSMZ**

Order Form/Agreement Cell lines are distributed to qualified investigators for use in their own research. Before shipment, the investigator is asked to sign an agreement stating that:

- the cell line will be used for research purposes only
- the cell line shall not be sold or used for commercial purposes
- the cell line shall not be distributed to third parties
- the name of the cell line shall not be changed
- the recipient of the cell line accepts all risks and the conditions of delivery of the DSMZ.

A copy of this Order Form/Agreement is included in the printed catalogue (last page) and also on the DSMZ download area

**No cell line is released prior to receipt of the signed Order Form/Agreement.**

**DSMZ****Index****Prices****Dept. of Human and Animal Cell Lines**

(fill out the details on the screen, print it out, sign it, and send to the DSMZ)

DSMZ - DEUTSCHE SAMMLUNG VON MIKROORGANISMEN UND ZELLKULTUREN  
Bereich Menschliche und Tierische Zellkulturen  
Mascheroder Weg 1b, 38124 Braunschweig, Germany  
Tel.: +49-531-2616.161; Fax: +49-531-2616.150;  
E-mail: mutz@dsmz.de  
Website: <http://www.dsmz.de>

### ORDER FORM / AGREEMENT

#### between the DSMZ and the Recipient of Cell Line(s)

The cell line(s) listed below will be made available subject to the following conditions:

1. The cells provided are for research purposes only. Cell lines and their products shall not be sold or used for commercial purposes or utilized in any other type of commercial activity without written agreement from the DSMZ on behalf of the original depositor.
2. The cells are provided as a service to the research community. The cell line(s) shall not be distributed to third parties.
3. Correct reference shall be made in any publication to the work of the original investigator who established the cell line and no alteration shall be made to its DSMZ title or acronym.
4. It is understood that neither the DSMZ nor the depositor of the cells accept any liability whatsoever in connection with the receipt, handling, storage or use of the cell line(s).
5. The undersigned accepts (also on behalf of his institution) the Conditions of Delivery of the DSMZ.
6. Only upon receipt of this signed agreement form, will the DSMZ be able to fulfill this request for these cells.

Typed or printed Name

Date

Signature

Company/University

Institute (Department, Room etc.)

complete Address

Telephone/Fax

e-mail

VAT No. (for European Union countries)

Quantity Cell Line:

DSM ACC No:

Quantity Cell Line:

DSM ACC No:

indicate:  DNA  growing cultures  frozen culture(s)

**NO CELL LINE IS SENT UNLESS THE DSMZ HAS RECEIVED THIS SIGNED FORM**

**Importation of Cell Lines into the USA and Canada****DSMZ****United States of America:**

The importation of biological materials is regulated by United States Federal Law. The need for an import permit from the United States Department of Agriculture (USDA) for our type of cell lines has been abolished as of October 1998. In other words, scientists in USA importing our cell lines do not require an import permit. For specific information, the USDA may be contacted: Animal and Plant Health Inspection Services (APHIS), U.S. Department of Agriculture, Veterinary Services National Center for Import and Export, Import/Export Products, 4700 River Road, Unit 40, Riverdale MD 20737-1231; www.aphis.usda.gov; phone: 301-734-3277.

**Canada:**

The importation of our type of cell lines into Canada does no longer require a Health Canada Import permit. General information can be obtained from the Animal Health Division, Food Production and Inspection Branch, Agriculture and Agri-Food Canada, Ottawa. Information could also be obtained at: Office of Biosafety, Laboratory Centre for Disease Control; phone: 613-957-1779.

For further information concerning shipments to North America, please inquire at:

**Dr. K.G. Steube**

DSMZ - Department of Human and Animal Cell Cultures  
Mascheroder Weg 1B  
D-38124 Braunschweig, Germany  
Tel: +49-531-2616.159  
Fax: +49-531-2616.150  
E-Mail: kst

**DSMZ****Index****Prices****Dept. of Human and Animal Cell Lines**

**Distribution of Cell Lines****DSMZ**

Cell cultures are distributed either frozen in plastic ampoules on dry ice ("frozen culture") or as active, growing cell populations in flasks or tubes ("growing culture"). Shipments are sent early in the week (usually on Mondays and Tuesdays) to ensure arrival before the following weekend. Due to the elaborate handling, the price for growing cultures is higher than for frozen cultures. We suggest ordering frozen cultures which are usually sent out 4-10 days after receipt of the complete order. However, for certain destinations outside Western Europe (due to restrictive, time-delaying import procedures or the distant geographical location with the long transit time of the parcel), we must ship cells exclusively as growing cultures.

Cell lines assigned to biosafety risk group 2 (as indicated in the respective cell line entries) will be distributed only within Germany due to extremely difficult shipping regulations. See also under Restrictions on the Use of Certain Cell Lines within Germany.

For further information on the distribution of cell lines, please inquire at:

**Dr. K.G. Steube**

DSMZ - Department of Human and Animal Cell Cultures  
Mascheroder Weg 1B  
D-38124 Braunschweig, Germany  
Tel: +49-531-2616.159  
Fax: +49-531-2616.150  
E-Mail: kst

**DSMZ****Index****Prices****Dept. of Human and Animal Cell Lines**

**Replacement Policy****DSMZ**

Please notify the DSMZ if cultures are received in a non-viable condition and if cells do not grow due to unsatisfactory material (at the address given below). Should the claim for replacement be justified and reported within 30 days, we will check the respective cell line and send a replacement as soon as possible. We can also assist with advice on the telephone in case cells do not grow optimally. Cultures lost due to insufficient culture conditions, improper storage or suboptimal cell culture technique will not be replaced.

Please contact:

**Dr. K.G. Steube**

DSMZ - Department of Human and Animal Cell Cultures  
Mascheroder Weg 1B  
D-38124 Braunschweig, Germany  
Tel: +49-531-2616.159  
Fax: +49-531-2616.150  
E-Mail: kst

**DSMZ****Index****Prices****Dept. of Human and Animal Cell Lines**

## PRICE LIST HUMAN AND ANIMAL CELL LINES (1 January 2003)

DSMZ

Culture/Service	Euro
<b>CELL LINES:</b>	
Frozen Culture (one ampoule)	200
Growing Culture	400
<b>SHIPPING and DRY ICE CHARGES per Package</b>	
Germany: Shipment of frozen cells on dry ice	60
Germany: Shipment of growing cultures in flasks	30
Europe: <sup>1</sup> Shipment of frozen cells on dry ice	150
Europe: <sup>1</sup> Shipment of growing cultures in flasks	75
North America: <sup>1</sup> Shipment of frozen cells on dry ice	200
North America: <sup>1</sup> Shipment of growing cultures in flasks	100
Shipping to other countries <sup>2</sup>	Inquire
Banking/Handling Fee	Info
<b>SAFE and PATENT DEPOSIT:</b>	
SAFE DEPOSIT	
Per Ampoule (per year)	25
PATENT DEPOSIT	
According to Budapest Treaty (for 30 years)	1350
<b>SERVICES:</b>	
<b>MYCOPLASMA TESTING:</b>	
Broth-Agar Microbiological Culture Method	100
Polymerase Chain Reaction	100
Mycoplasma Elimination and Verification	1000
Cell Culture for Mycoplasma Testing	150

**CELL CULTURING:**

Growth and Preservation (including mycoplasma testing) per Ampoule	
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First Ampoule (per Cell Line)	300
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Any further Ampoule (per Cell Line)	50
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**ISOENZYME ANALYSIS:**

Isoenzyme Mobility Profile (per enzyme out of 6 enzymes)	
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Single sample	50
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2-3 Samples	75
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**CYTOGENETIC ANALYSIS:**

Human Cell Lines (consensus karyotype and modal chromosome number)	Inquire
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Animal Cell Lines	Inquire
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**CYTOTOXICITY ASSAY:**

Per Cell Line and per Reagent	75
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**FINGERPRINTING:**

Multiplex PCR Single Locus Analysis (single sample)	200
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Multiplex PCR Single Locus Analysis (up to 5 samples)	750
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Southern Blot Multilocus Analysis	1000
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**DETECTION OF VIRUSES:**

Polymerase Chain Reaction (per virus out of 6 human pathogenic viruses)	100
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Cell Culture for Virus Testing	150
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**DETECTION OF SPECIES:**

PCR Detection for Mouse, Rat, Hamster Cell Lines	
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1-3 Samples	100
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3-6 Samples	150
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**IMMUNOPHENOTYPING:**

Cell Surface Markers (per monoclonal antibody out of 40 markers)	50
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Intracytoplasmatic Intermediate Filaments (per monoclonal antibody out	50
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of 6 markers)	
<b>DNA:</b>	
DNA Isolated from Cell Lines of the Cell Culture Collection per 25 microg	200

1 All orders placed from outside Germany will be subject to an additional banking/handling fee.

2 Shipments to certain destinations may be subject to an additional surcharge. Deliveries to some destinations will not be undertaken.

For details on techniques and methods used in the above services, please contact the DSMZ.

Charges and fees for cultures and services may be updated without notice. Updates may be obtained on request. All prices are net without further discounts. Value-added-tax (VAT, Mehrwertsteuer) (at present 7%) will be charged in addition, if applicable. All orders placed from outside Germany will be subject to a banking fee of 20 Euro. Payments should not be made in advance. An invoice will be sent by standard mail.

DSMZ

Index

Prices

Dept. of Human and Animal Cell Lines

**Charges****DSMZ**

(effective 1st July 2003)

Charges and fees for cultures and services are given in Euro and may be updated without notice. Updates may be obtained on request. All prices are net without the possibility of further discount. Value added tax (at present 7%) will be charged in addition, if applicable.

All orders placed outside Germany are subject to a handling and banking charge depending on the amount of the invoice (see table below).

**Handling and banking charge (in Euro)**

invoice amount (net)	charge for non EU members	charge for EU members
1 - 20 €	10 €	5 €
20 - 100 €	15 €	8 €
100 - 500 €	20 €	10 €
more than 500 €	30 €	15 €

**Shipment of Risk Group 2 Microorganisms**

Detailed information on additional charges for the transportation of Risk Group 2 microorganisms and other cultures which must be sent by private courier can be found [here](#).

**Shipment of Risk Group 2 Cell Lines**

Cell lines assigned to risk group 2 level (indicated in the respective cell line data) will not be distributed outside Germany. Within Germany, however, risk group 2 cell lines will be despatched only as "growing cultures" with reduction of the normally charged price.

More information on restrictions and distribution of cell lines.

DSMZ